THIC PRO	_		ESCRIPTION  ION OF A NEW TRAFFIC SIGNAL AT MD 355	B #41	_	EQUIP
AND SUGA		Y IN FREDERICK	COUNTY. MD 355 IS ASSUMED TO RUN	B. EQUIPMENT CATAGORY	TO BE FURNISH	ED AND II
	TION OPERATION			CODE NO.	SPEC. NO.	QUANTI
	L OPERATION			585464	549	2 EA.
		NDEDATE IN A NIC	EMA (6) SIX-PHASE FULLY-TRAFFIC-ACTUATED	805160 807202	805 807	50 L. IEA.
MODE WITH	H THE MD 355 /	APPROACHES RUI	NNING CONCURRENTLY AND THE SUGARLOAF	861105	810	477 L
CONCURRE	NTLY WITH NOR	THBOUND AND S	ENTLY. PEDESTRIAN PHASES WILL RUN OUTHBOUND MD 355. A PUSHBUTTON	861106	810	717 L
	S OF SUGARLOA		LY WITH EASTBOUND AND WESTBOUND	861107	810	86 L.I
		FT TURN PHASE	S WILL BE PROVIDED FOR NORTHBOUND AND	861108	810	1816 L
SOUTHBOU	IND MD 355.	865201	817	4 EA.		
		870160	805	105 L.		
	TRAFFIC ACTUAT	805115	805	20 L.F		
		HIS INTERSECTION	NET WITH VIDEO CAMERA DETECTION N.	870163	805	1077 L
		870166	805	20 L.F		
LIDON COM	ADLETION OF THE	IC DOOLEGE THE	CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER	870167	805	430 L
OF SHA A	T (410) 787-763	871202	805	I EA.		
	OR IS TO PROV E NUMBER.	IDE MR. SNYDER	WITH THE NEAREST STREET ADDRESS, ZIP CODE,	900000	900000	I EA.
	<u> </u>	UIPMENT	LICT "A"	900000	900000	2 EA.
A FOLIIPMENT			INSTALLED BY THE CONTRACTOR:	900000	900000	335 S
	IV DE SUFFEI	בט טו אחא ANU	MOTALLED DI THE CONTRACTORS			- 2
CATAGORY CODE NO.	SPEC. NO.	QUANTITY	DESCRIPTION			- 2
			WEVER, CABINET AND CONTROLLER			- I E
			FORE APPROVAL IS GRANTED FOR USE.			- 6
	TO BE FURNIS	HED AND INSTAL	LED BY THE CONTRACTOR:			-2 E
CATAGORY CODE NO.	SPEC. NO.	QUANTITY	DESCRIPTION			- 4
120500	104	L.S.	MAINTENANCE OF TRAFFIC			-4 E
203030	205	3 C.Y.	TEST PIT			-4 E
585618	556 SP	22 L.F.	FURNISH AND INSTALL 5 IN. DOUBLE YELLOW HEAT AP THERMOPLASTIC PAVEMENT MARKING (CENTERLINE)	PLIED PERMANENT	PREFORMED	
585620	556 SP	147 L.F.	THERMOPLASTIC PAVEMENT MARKING (CROSS WALK) FURNISH AND INSTALL 12 IN. WHITE HEAT APPLIED PER	MANENT PREFORME	ED	-1 E <i>l</i>
585624	556 SP	53 L.F.	THERMOPLASTIC PAVEMENT MARKING (STOP LINE) FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PER			-1 E <i>l</i>
			TOTAL TOTAL ET ME WITH THE TELL TELL	RMANENT PREFORM	IED	-1 EF
585630	556 SP	8 E.A.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)	RMANENT PREFORM	ED	-I E <i>l</i>
585630 800000	556 SP	8 E.A. 7 EA.	FURNISH AND INSTALL PERMANENT PREFORMED			-1 E <i>l</i> -4 E
800000 816001	816	7 EA. 4 EA.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50  FURNISH AND INSTALL VIDEO DETECTION CAMERAS.	O FT. LEAD-IN. (NO		-I E <i>l</i>
800000 816001 816010	816 816	7 EA. 4 EA. 8 EA.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50  FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABL	O FT. LEAD-IN. (NO	ON-INVASIVE)	-1 E <i>l</i> -4 E
800000 816001 816010 816015	816 816 816	7 EA. 4 EA. 8 EA. 1 EA.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50  FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABL	O FT. LEAD-IN. (NO E. QUIPMENT, CAMERA	ON-INVASIVE) S 1-4	-1 E <i>l</i> -4 E
800000 816001 816010 816015 818021	816 816 816 818	7 EA. 4 EA. 8 EA. 1 EA. 1 EA.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50  FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABL  FURNISH AND INSTALL VIDEO DETECTION INTERFACE ECO  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE	O FT.LEAD-IN.(NO E. QUIPMENT, CAMERA W/ 38 FT MAST	ON-INVASIVE) S 1-4 ARM.	-1 E <i>l</i> -4 E
800000 816001 816010 816015 818021 818030	816 816 816 818	7 EA. 4 EA. 8 EA. 1 EA. 1 EA.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50  FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABL  FURNISH AND INSTALL VIDEO DETECTION INTERFACE ECC  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE	O FT.LEAD-IN.(NO E. QUIPMENT, CAMERA W/ 38 FT MAST W/ 50 FT MAST	ON-INVASIVE) S I-4 ARM. ARM.	-1 E <i>l</i> -4 E
800000 816001 816010 816015 818021	816 816 816 818	7 EA. 4 EA. 8 EA. 1 EA. 1 EA.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50  FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABL  FURNISH AND INSTALL VIDEO DETECTION INTERFACE ECO  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE	O FT.LEAD-IN.(NO E. QUIPMENT, CAMERA W/ 38 FT MAST W/ 50 FT MAST W/ 50 FT/70 FT	ON-INVASIVE) S I-4 ARM. ARM.	-1 E <i>l</i> -4 E
800000 816001 816010 816015 818021 818030 818051	816 816 816 818 818 818	7 EA. 4 EA. 8 EA. 1 EA. 1 EA. 1 EA. 2 EA. 3 EA.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50  FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABL  FURNISH AND INSTALL VIDEO DETECTION INTERFACE ECC  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (A	O FT.LEAD-IN.(NO E. QUIPMENT, CAMERA W/ 38 FT MAST W/ 50 FT MAST W/ 50 FT/70 FT NY SIZE)	ON-INVASIVE) S I-4 ARM. ARM.	-1 E <i>l</i> -4 E
800000 816001 816010 816015 818021 818030 818051 818004	816 816 818 818 818 818	7 EA. 4 EA. 8 EA. 1 EA.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50  FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABL  FURNISH AND INSTALL VIDEO DETECTION INTERFACE ECC  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (A	O FT.LEAD-IN.(NO E. QUIPMENT, CAMERA W/ 38 FT MAST W/ 50 FT MAST W/ 50 FT/70 FT NY SIZE)	ON-INVASIVE) S I-4 ARM. ARM.	-1 E <i>l</i> -4 E
800000 816001 816010 816015 818021 818030 818051 818004 801004	816 816 818 818 818 818 801	7 EA. 4 EA. 8 EA. 1 EA. 1 EA. 1 EA. 1 EA. 1 EA. 7 EA. 7 EA.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50  FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABL  FURNISH AND INSTALL VIDEO DETECTION INTERFACE ECCE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (A  FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDA  FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"x4"	O FT.LEAD-IN.(NO E. QUIPMENT, CAMERA W/ 38 FT MAST W/ 50 FT MAST W/ 50 FT/70 FT NY SIZE)	ON-INVASIVE) S I-4 ARM. ARM.	-1 E <i>l</i> -4 E
800000 816001 816010 816015 818021 818030 818051 818004 801004 801104	816 816 818 818 818 818 801 812	7 EA. 4 EA. 8 EA. 1 EA. 1 EA. 1 EA. 1 EA. 1 EA. 201 L.F.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50  FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABL  FURNISH AND INSTALL VIDEO DETECTION INTERFACE ECC  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (A  FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"x4"  FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"x4"	O FT. LEAD-IN. (NO E. QUIPMENT, CAMERA W/ 38 FT MAST W/ 50 FT MAST W/ 50 FT/70 FT NY SIZE)	ON-INVASIVE) S I-4 ARM. ARM. T MAST ARMS.	-1 E <i>l</i> -4 E
800000 816001 816010 816015 818021 818030 818051 818004 801004 801104 801106 802501	816 816 818 818 818 818 801 812 812	7 EA. 4 EA. 8 EA. 1 EA. 1 EA. 1 EA. 1 EA. 1 EA. 201 L.F. 502 L.F.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50  FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABL  FURNISH AND INSTALL VIDEO DETECTION INTERFACE ECC  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (A  FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDA  FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"×4"  FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"×4"  FURNISH AND INSTALL STRANDED BARE COPPER GROUI	O FT. LEAD-IN. (NO. ).E.  QUIPMENT, CAMERA W/ 38 FT MAST W/ 50 FT MAST W/ 50 FT/70 FT NY SIZE)  TION	ON-INVASIVE)  S I-4  ARM.  ARM.  T MAST ARMS.	-1 E <i>l</i> -4 E
800000 816001 816010 816015 818021 818030 818051 818004 801004 801104 801106 802501 810010	816 816 818 818 818 818 801 812 812 810	7 EA. 4 EA. 8 EA. 1 EA. 1 EA. 1 EA. 1 EA. 201 L.F. 502 L.F. 40 L.F.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50  FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABLE  FURNISH AND INSTALL VIDEO DETECTION INTERFACE ECC  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (A  FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDA  FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"X4"  FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"X 6".  FURNISH AND INSTALL STRANDED BARE COPPER GROUI  FURNISH AND INSTALL ELECTRICAL CABLE - I WIRE NO.	O FT. LEAD-IN. (NO. ).E.  QUIPMENT, CAMERA W/ 38 FT MAST W/ 50 FT MAST W/ 50 FT/70 FT NY SIZE)  TION	ON-INVASIVE)  S I-4  ARM.  ARM.  T MAST ARMS.	-1 E <i>l</i> -4 E
800000 816001 816010 816015 818021 818030 818051 818004 801004 801104 801106 802501 810010 811001	816 816 818 818 818 818 801 812 812 810 810	7 EA. 4 EA. 8 EA. 1 EA. 1 EA. 1 EA. 1 EA. 1 EA. 201 L.F. 502 L.F. 40 L.F.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50  FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE  FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (A  FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"X4"  FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"X 6".  FURNISH AND INSTALL STRANDED BARE COPPER GROUF  FURNISH AND INSTALL ELECTRICAL CABLE - I WIRE NO.  FURNISH AND INSTALL ELECTRICAL HANDHOLE.	O FT. LEAD-IN. (NO. ).E.  QUIPMENT, CAMERA W/ 38 FT MAST W/ 50 FT MAST W/ 50 FT/70 FT NY SIZE)  TION	ON-INVASIVE)  S I-4  ARM.  ARM.  T MAST ARMS.	-1 E <i>l</i> -4 E
800000 816001 816010 816015 818021 818030 818051 818004 801004 801104 801106 802501 810010 811001	816 816 818 818 818 801 812 812 810 810 810	7 EA. 4 EA. 8 EA. 1 EA. 1 EA. 1 EA. 1 EA. 1 EA. 201 L.F. 201 L.F. 40 L.F. 15 EA. 172 S.F.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50 FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL VIDEO DETECTION INTERFACE ECONOMISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (A FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATOR FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"x4"  FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"x4"  FURNISH AND INSTALL STRANDED BARE COPPER GROUD FURNISH AND INSTALL ELECTRICAL CABLE - I WIRE NOT FURNISH AND INSTALL ELECTRICAL HANDHOLE.  INSTALL GROUND MOUNTED SIGN.	O FT. LEAD-IN. (NO. ).E.  QUIPMENT, CAMERA W/ 38 FT MAST W/ 50 FT MAST W/ 50 FT/70 FT NY SIZE)  TION	ON-INVASIVE)  S I-4  ARM.  ARM.  T MAST ARMS.	-1 E <i>l</i> -4 E
800000 816001 816010 816015 818021 818030 818051 818004 801004 801104 801106 802501 810010 811001 813014	816 816 818 818 818 801 812 812 810 810 810 811	7 EA. 4 EA. 8 EA. 1 EA. 1 EA. 1 EA. 1 EA. 3 EA. 14 C.Y. 76 L.F. 201 L.F. 502 L.F. 40 L.F. 15 EA. 172 S.F. 163 S.F.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50 FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABLE FURNISH AND INSTALL VIDEO DETECTION INTERFACE ECCEPTION INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (A FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDA FURNISH AND INSTALL WOOD SIGN SUPPORTS 4" x 6".  FURNISH AND INSTALL STRANDED BARE COPPER GROUD FURNISH AND INSTALL ELECTRICAL CABLE - I WIRE NOT FURNISH AND INSTALL ELECTRICAL HANDHOLE.  INSTALL GROUND MOUNTED SIGN.  INSTALL OVERHEAD SIGN.	O FT. LEAD-IN. (NO.  E.  QUIPMENT, CAMERA  W/ 38 FT MAST  W/ 50 FT MAST  W/ 50 FT/70 FT  NY SIZE)  TION  ND WIRE (NO. 6 AW  . 4 AWG THHN/THW	ON-INVASIVE)  S I-4  ARM.  ARM.  T MAST ARMS.	-1 E <i>l</i> -4 E
800000 816001 816010 816015 818021 818030 818051 818004 801004 801104 801106 802501 810010 813014 813015 837001	816 816 818 818 818 801 812 812 810 810 810 811 813 813	7 EA. 4 EA. 8 EA. 1 EA. 1 EA. 1 EA. 1 EA. 1 EA. 201 L.F. 201 L.F. 40 L.F. 15 EA. 172 S.F. 163 S.F. 5 EA.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50 FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (A FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDA FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"X4"  FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"X 6".  FURNISH AND INSTALL STRANDED BARE COPPER GROUD FURNISH AND INSTALL ELECTRICAL CABLE - I WIRE NOT FURNISH AND INSTALL ELECTRICAL HANDHOLE.  INSTALL GROUND MOUNTED SIGN.  INSTALL OVERHEAD SIGN.  FURNISH AND INSTALL GROUND ROD -3/4 IN. DIA. X 10	O FT. LEAD-IN. (NO.  E.  CUIPMENT, CAMERA  W/ 38 FT MAST  W/ 50 FT MAST  W/ 50 FT/70 FT  NY SIZE)  TION  ND WIRE (NO. 6 AW  4 AWG THHN/THW	S I-4 ARM. ARM. T MAST ARMS.	-1 E <i>l</i> -4 E
800000 816001 816010 816015 818021 818030 818051 818004 801004 801104 801106 802501 810010 811001 813014 813015 837001 838003	816 816 818 818 818 801 812 812 810 810 810 811 813 813 804	7 EA. 4 EA. 8 EA. 1 EA. 1 EA. 1 EA. 1 EA. 1 EA. 201 L.F. 201 L.F. 40 L.F. 15 EA. 172 S.F. 163 S.F. 5 EA. 1 EA.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50 FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (A FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"X4"  FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"X4"  FURNISH AND INSTALL STRANDED BARE COPPER GROUD FURNISH AND INSTALL ELECTRICAL CABLE - I WIRE NOT FURNISH AND INSTALL ELECTRICAL HANDHOLE.  INSTALL GROUND MOUNTED SIGN.  INSTALL OVERHEAD SIGN.  FURNISH AND INSTALL GROUND ROD -3/4 IN. DIA. X 10 FURNISH AND INSTALL GROUND ROD -3/4 IN. DIA. X 10 FURNISH AND INSTALL CONTROL AND DISTRIBUTION (12)	O FT. LEAD-IN. (NO. E. QUIPMENT, CAMERA W/ 38 FT MAST W/ 50 FT MAST W/ 50 FT/70 FT NY SIZE) TION  TION  FT. LENGTH.  C/240, I PHASE 3	ON-INVASIVE)  S I-4 ARM. ARM. T MAST ARMS.  WIRE SYSTEM).	-1 E <i>l</i> -4 E
800000 816001 816010 816015 818021 818030 818051 818004 801004 801104 801106 802501 810010 811001 813014 813015 837001 838003 860270	816 816 818 818 818 818 801 812 812 810 810 810 811 813 813 804 807 814	7 EA. 4 EA. 8 EA. 1 EA. 1 EA. 1 EA. 1 EA. 1 EA. 201 L.F. 201 L.F. 40 L.F. 15 EA. 172 S.F. 163 S.F. 5 EA. 1 EA. 1 EA.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50 FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (A FURNISH AND INSTALL WOOD SIGN SUPPORTS 4'x4' FURNISH AND INSTALL WOOD SIGN SUPPORTS 4'x4' FURNISH AND INSTALL STRANDED BARE COPPER GROUD FURNISH AND INSTALL ELECTRICAL CABLE - I WIRE NOT FURNISH AND INSTALL ELECTRICAL HANDHOLE.  INSTALL GROUND MOUNTED SIGN.  INSTALL GROUND MOUNTED SIGN.  FURNISH AND INSTALL GROUND ROD -¾ IN. DIA. X 10 FURNISH AND INSTALL GROUND ROD -1/4 IN. DIA. X 10 FURNISH AND INSTALL CONTROL AND DISTRIBUTION (12) FURNISH AND INSTALL CONTROL AND DISTRIBUTION (12) FURNISH AND INSTALL 8 IN. VEHICULAR TRAFFIC SIGNAL	O FT. LEAD-IN. (NO. E. QUIPMENT, CAMERA W/ 38 FT MAST W/ 50 FT/70 FT NY SIZE) TION  TION  FT. LENGTH.  D/240, I PHASE 3 L HEAD SECTION (I	ON-INVASIVE)  S I-4  ARM.  ARM.  T MAST ARMS.  WIRE SYSTEM).  BLACK FACED)	-1 E <i>l</i> -4 E
800000 816001 816010 816015 818021 818030 818051 818004 801004 801104 801106 802501 810010 811001 813014 813015 837001 838003 860270 860272	816 816 818 818 818 801 812 812 810 810 810 811 813 813 804 807 814	7 EA. 4 EA. 8 EA. 1 EA. 1 EA. 1 EA. 1 EA. 1 EA. 201 L.F. 201 L.F. 40 L.F. 15 EA. 172 S.F. 163 S.F. 5 EA. 1 EA. 1 EA. 1 EA.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50 FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL VIDEO DETECTION INTERFACE ECCEPTION INSTALL VIDEO DETECTION INTERFACE ECCEPTION INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL ENCOURETE FOR SIGNAL FOUNDATE FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"X4"  FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"X6".  FURNISH AND INSTALL STRANDED BARE COPPER GROUND FURNISH AND INSTALL ELECTRICAL CABLE - I WIRE NOW FURNISH AND INSTALL ELECTRICAL HANDHOLE.  INSTALL GROUND MOUNTED SIGN.  INSTALL OVERHEAD SIGN.  FURNISH AND INSTALL GROUND ROD -¾4 IN. DIA. X 10 FURNISH AND INSTALL CONTROL AND DISTRIBUTION (120 FURNISH AND INSTALL 8 IN. VEHICULAR TRAFFIC SIGNAL FURNISH AND INSTALL 8 IN. VEHICULAR TRAFFIC SIGNAL FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL	DO FT. LEAD-IN. (NO. E. DUIPMENT, CAMERAL W/ 38 FT MAST W/ 50 FT MAST W/ 50 FT/70 FT NY SIZE) TION  FT. LENGTH.  D/240, I PHASE 3 L HEAD SECTION (INC.)	ON-INVASIVE)  S I-4 ARM. ARM. T MAST ARMS.  WIRE SYSTEM). BLACK FACED) (BLACK FACED)	-1 E <i>l</i> -4 E
800000 816001 816010 816015 818021 818030 818051 818004 801004 801104 801106 802501 810010 813014 813015 837001	816 816 818 818 818 818 801 812 812 810 810 810 811 813 813 804 807 814	7 EA. 4 EA. 8 EA. 1 EA. 1 EA. 1 EA. 1 EA. 1 EA. 201 L.F. 201 L.F. 40 L.F. 15 EA. 172 S.F. 163 S.F. 5 EA. 1 EA. 1 EA.	FURNISH AND INSTALL PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROWS)  FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 50 FURNISH AND INSTALL VIDEO DETECTION CAMERAS.  FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (A FURNISH AND INSTALL WOOD SIGN SUPPORTS 4'x4' FURNISH AND INSTALL WOOD SIGN SUPPORTS 4'x4' FURNISH AND INSTALL STRANDED BARE COPPER GROUD FURNISH AND INSTALL ELECTRICAL CABLE - I WIRE NOT FURNISH AND INSTALL ELECTRICAL HANDHOLE.  INSTALL GROUND MOUNTED SIGN.  INSTALL GROUND MOUNTED SIGN.  FURNISH AND INSTALL GROUND ROD -¾ IN. DIA. X 10 FURNISH AND INSTALL GROUND ROD -1/4 IN. DIA. X 10 FURNISH AND INSTALL CONTROL AND DISTRIBUTION (12) FURNISH AND INSTALL CONTROL AND DISTRIBUTION (12) FURNISH AND INSTALL 8 IN. VEHICULAR TRAFFIC SIGNAL	DO FT. LEAD-IN. (NO. E. DUIPMENT, CAMERA W/ 38 FT MAST W/ 50 FT MAST W/ 50 FT/70 FT NY SIZE) TION  FT. LENGTH.  D/240, I PHASE 3 L HEAD SECTION (INC.)  SECTION (POLE M.)	ON-INVASIVE)  S I-4 ARM. ARM. T MAST ARMS.  WIRE SYSTEM). BLACK FACED) (BLACK FACED) IOUNT)	-1 EA -4 E

## PMENT LIST "B"

R. FOLIPMEN	T to be furnis	EQUIPMEN SHED AND INSTAI	LLED BY THE CONTRACTOR:
CATAGORY CODE NO.	SPEC. NO.	QUANTITY	DESCRIPTION
585464	549	2 EA.	REMOVE EXISTING PAVEMENT MARKINGS-ARROWS
805160	805	50 L.F.	FURNISH AND INSTALL I IN. LIQUID-TIGHT NON-METALLIC CONDUIT FOR DETECTOR SLEEN
807202	807	IEA.	FURNISH AND INSTALL METERED SERVICE PEDESTAL
861105	810	477 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO.14 AWG)
861106	810	717 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)
861107	810	86 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	810	1816 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)
865201	817	4 EA.	FURNISH AND INSTALL PEDESTRIAN PUSH BUTTON AND SIGN
870160	805	105 L.F.	FURNISH AND INSTALL 2 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - TRENCHED
805115	805	20 L.F.	FURNISH AND INSTALL 3 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - BORED
870163	805	1077 L.F.	FURNISH AND INSTALL 3 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - TRENCHED
870166	805	20 L.F.	FURNISH AND INSTALL 4 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - TRENCHED
870167	805	430 L.F.	FURNISH AND INSTALL 4 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - BORED
871202	805	I EA.	INSTALL CONTROLLER AND CABINET - BASE MOUNTED
900000	900000	I EA.	FURNISH NEMA 6 BASE MOUNTED CABINET AND CONTROLLER
900000	900000	2 EA.	FURNISH FOUR-CHANNEL, RACK MOUNTED, LOOP DETECTOR AMPLIFIER
900000	900000	335 S.F.	FURNISH SHEET ALUMINUM SIGNS
		- 2 EA	R3-6L SIGN 30"x36"
		- 2 EA	R3-5R SIGN 30"x36"
		- I EA	R4-7 SIGN 24"x30"
		- 6 EA	W3-3 SIGN 48"×48"
		-2 EA	W16-8 SIGN 60'x12'
		- 4 EA	D3-2 SIGN 16"x96"

D3-2 SIGN 16"x72"

RIO-12 SIGN 30"x36"

M2-I SIGN 21"x15"

MI-5 "MARYLAND, 355"(24"x24")

## PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

A - H

MR. JOHN CONCANNON ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (301) 624-8141

ASSOCIATED SHIELD ASSEMBLY "SOUTH, MD 355, LEFT ARROW" (48"x75")-GROUND MOUNT

ASSOCIATED SHIELD ASSEMBLY "NORTH, MD 355, RIGHT ARROW"(30"x63")-POLE MOUNT

ASSOCIATED SHIELD ASSEMBLY "SOUTH, MD 355, RIGHT ARROW"(30"x51")-GROUND MOUNT

ASSOCIATED SHIELD ASSEMBLY "NORTH, MD 355, LEFT ARROW"(48"x90")-POLE MOUNT

MR. ANDREA ABEND UTILITY ENGINEER PHONE: (301) 624-8115

MR. RICHARD L. DAFF, SR. CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

THE POWER COMPANY REPRESENTATIVE IS: ALLEGHENY POWER MR. BRUCE WIBBERLY PHONE: (301) 694-4485

## J.X.Z.FF WIRING KEY PHASE 1+5 I+5 CHANGE PHASE 1+6 1+6 CHANGE PHASE 2+5 2+5 CHANGE PHASE 2+6 PHASE PED CLEAR 2+6 CHANGE PHASE 4+8 4+8 CHANGE PHASE 4+8 ALT PHASE PED CLEAR 4+8 CHANGE FLASHING OPERATION

XXX, XXX R.S.JJ.Z-I,EE,Z-Q,U,V,W,Z, /-II,LL \_\_C.D.I.R.S.Z. EE,JJ \_E,F,Q,U,V,W,Z, POWER SOURCE C.D.G.H.I.J. PE SYSTEM 1004 POLE K.R.S.T.X.Z. \_EE,FF,JJ,KK A.B.C.D.E.F.G. L.I.J.K.Q. R.S.T.U.V.W.X.Z. EE,FF,II,JJ,KK,LL LA,B.C,D,G,H,I, J,K,R,S,T,X,Z, EE,FF,JJ,KK 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.) 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) PF - POWER FEED (NO. 4 A.W.G.) 7-CONDUCTOR ELECTRICAL + - 3/4 IN. × 10 FT. GROUND ROD CABLE (NO. 14 A.W.G.) 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) EE - FF } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) PHASE CHART R/+G- R/+G- R/+G- R R/+G- R/+G- R R R R THE CONTROLLER MAY SKIP TO PHASES 1&6 OR 2&5 OR 2&6 DW DW DW DW R R R G/-G-G/-G-G G R R R WK WK DW DW R | R | R | G/-Y-|G/-Y-|G/-Y-| G | R | R R R FL/DWFL/DW DW DW | G | G | G | G | R | DW DW DW DW R | R | R | R | G | G G DW DW WK WK RRRRRG 

WIRING DIAGRAM



## MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNAL GENERAL INFORMATION MD 355 EXISTING AT SUGARLOAF PARKWAY

DRAWN BY: SSS CHECKED BY: SWW	F.A.P. NO. S.H.A. NO.	NONE NONE	TS NO. 4362	SHEET NO.
SCALE: [1"=20" DATE: 8/26/04	COUNTY:	FREDERICK 10035503.8I	T.I.M.S. NO. GI 43	128 OF 152
DATE: 0/20/04	LOG MILLS	1000000101	0140	120 01 102

